

# D-Link<sup>®</sup>

## DES-802 10/100 Fast Ethernet Switch User's Guide

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Rev. 02 (November, 1997)

6DES802...02

Printed In Taiwan



RECYCLABLE

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1. Bitte lesen Sie sich diese Hinweise sorgfältig durch.
2. Heben Sie diese Anleitung für den spätem Gebrauch auf.
3. Vor jedem Reinigen ist das Gerät vom Stromnetz zu trennen. Verwenden Sie keine Flüssig- oder Aerosolreiniger. Am besten dient ein angefeuchtetes Tuch zur Reinigung.
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Unmanaged Switch	Lifetime

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# **PREFACE**

Congratulations on your purchase of the 10/100 Fast Ethernet Switch. This device integrates 100Mbps Fast Ethernet and 10Mbps Ethernet network capabilities in a highly flexible package.

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## **Purpose**

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This manual discusses how to install and use the 10/100 Fast Ethernet Switch.

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## **Audience**

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This manual is intended for network administrators with:

- Background in LAN bridge concepts.
- Understanding of IEEE 802.3 Ethernet and 100BASE-TX Fast Ethernet networking concepts.
- Understanding of how to install local area networks (LANs).

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# Manual Organization

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## **Chapter 1 Overview**

Describes the product, its features, packing list, and the front and rear panels.

## **Chapter 2 Installation**

Provides detailed instructions on installing the 10/100 Fast Ethernet Switch. Chapter 2 includes information on table and wall-mounted installation, connecting power, network connections, setting the communications mode and cascade, and provides some network configuration examples.

## **Appendix A Specifications**

Lists the technical specifications of the product.

## **Appendix B Connector Pinouts**

Describes the connector pinouts of the 10/100 Fast Ethernet Switch ports.

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# OVERVIEW

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## Introduction

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The 10/100 Fast Ethernet Switch is an ideal device for linking Ethernet LANs without impacting available bandwidth or for integrating 100Mbps Fast Ethernet with 10Mbps Ethernet networks. The speed migration design will bridge a bandwidth-intensive Fast Ethernet network and a traditional 10Mbps Ethernet network.

The 10/100 Fast Ethernet Switch complies with IEEE802.3u, 100BASE-TX, IEEE802.3 and 10BASE-T standards. The switch has two ports, one of which is a 10/100Mbps, N-Way, RJ-45 port. The other is a 3-in-1 combo port with twisted pair (10/100Mbps, N-Way), BNC coaxial, and AUI connectors. The 10/100 Fast Ethernet Switch provides a store-and-forward passing scheme with filtering and forwarding rates running at wire-speed, reducing latency within and across segments.

The 10/100 Fast Ethernet Switch provides an easy, affordable, high-performance, seamless, and standard-based migration path to a 100BASE-TX LAN while preserving your initial investment and use of 10Mbps Ethernet LANs.

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## Product Features

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The 10/100 Fast Ethernet Switch has the following key features:

- One 3-in-1 Combo Port: UTP/STP (N-Way), BNC, and AUI.
- One 10/100Mbps, N-Way UTP/STP port.
- Full-duplex and half-duplex capability on both ports (applies *only to the twisted-pair connector* on the combo port); user-configurable through the Duplex Mode Switch.
- Support for IEEE 802.3, 10BASE-2, 10BASE-T, IEEE 802.3u and 100BASE-TX standards.
- Ability of both ports to connect to a LAN segment up to 100 meters long (UTP/STP).
- Extensive LED indicators to facilitate troubleshooting and monitoring of the product's operating status.
- Compatibility with standard Ethernet applications, internetworking systems and client-side adapters to minimize infrastructure changes and costs.

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## Packing List

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Unpack the 10/100 Fast Ethernet Switch shipping carton and check for the listed items below. If any items are missing or damaged, notify your authorized reseller immediately.

- The 10/100 Fast Ethernet Switch
- This *User's Guide*

- An AC Power Cord
- A Wall Mount kit ( 2 tapping screws and 2 screw anchors)
- Rubber Feet

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## Front Panel

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The 10/100 Fast Ethernet Switch front panel includes network connectors and LED indicators for ease-of-use.

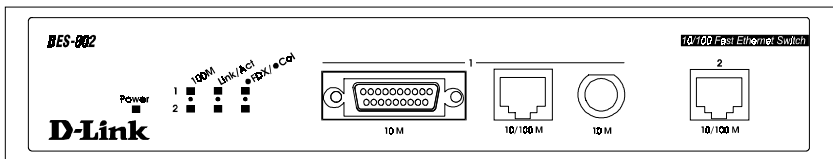


Figure 1 : 10/100 Fast Ethernet Switch Front Panel

## Ports

The product comes with two ports. These ports can be used to connect to individual stations, to LAN segments that include multiple hubs, and to other 100BASE-TX/10BASE-T switches.

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**Important Note:** Crossover cables must be used when connecting hubs or switches to the twisted pair ports on this switch via any port other than a straight-through uplink.

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## Port 1: 3-in-1 Combo

Port 1 has three different connectors – UTP/STP, BNC, and AUI.

The twisted-pair connector (UTP/STP) of Port 1 is a 10/100Mbps, N-Way RJ-45 port for use with unshielded or shielded twisted-pair cabling. Because it is an N-Way port, the operating mode of connected stations (10Mbps Ethernet or 100Mbps Fast Ethernet) is automatically detected and the port is auto-configured to match. Please use crossover cabling unless you are connecting to a straight-through uplink port on a switch or hub. The twisted-pair connector operates at an user-selectable effective speed of 10 or 100Mbps for half-duplex mode and 20 or 200Mbps for full-duplex mode. In either mode, the twisted-pair connector can operate up to 100 meters of Category 3, 4, or 5 UTP/STP cable.

The BNC connector is a standard connector for use with thin Ethernet coaxial cabling (half-duplex mode only).

The AUI connector is for attaching the switch to an external transceiver for a thick Ethernet or Fiber-optic connection (half-duplex mode only).

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***Important Note:*** *The Port 1 connectors are arranged in a “priority” scheme. That is, one connector has a higher priority than the other two, so if a device is connected to that connector, the other connectors are disabled. The priority is: UTP/STP – highest priority; AUI – second priority; BNC – lowest priority. **Only one connector at a time may be used.***

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## Port 2: 10/100Mbps, N-Way UTP/STP

Port 2 operates at an user-selectable effective speed of 10 or 100Mbps for half-duplex mode and 20 or 200Mbps for full-duplex mode. It is an N-Way port, so it auto-detects and auto-configures according to the operating standard (10Mbps Ethernet or 100Mbps Fast Ethernet) of connected devices. Port 2 can operate up to 100 meters of Category 3, 4 or 5 shielded twisted-pair or unshielded twisted-pair (STP/UTP) cable. Please use crossover cabling unless you are connecting to a straight-through uplink port on a switch or hub. Port 2 uses an RJ-45 connector.

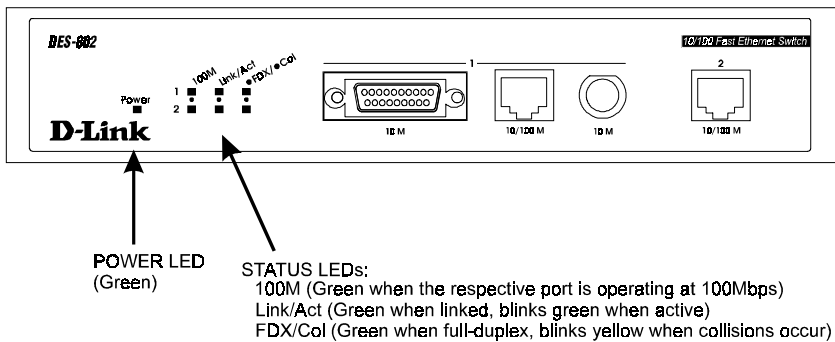
**Table 1 : Port and Cable Specifications**

Port	Connector	Half/Full Duplex	Cable
<b>2</b> – 10BASE-T and 100BASE-TX (N-Way)	RJ-45	10/20Mbps and 100/200 Mbps	100m, Category 5 UTP/STP
<b>1</b> – 10BASE-T ( <i>and 100BASE-TX, N-Way for UTP/STP ONLY</i> )	Combo: UTP/STP, BNC, AUI	10/20 Mbps ( <i>100/200Mbps and FDX for UTP/STP ONLY</i> )	100m, Category 3, 4, or 5 UTP/STP

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## LED Indicators

The 10/100 Fast Ethernet Switch has extensive LED indicators to facilitate monitoring and troubleshooting. They include a Power LED and Status LEDs for both ports. The Status LEDs have indicators that report on Link, Duplex, Activity, Collision and 100Mbps states.



**Figure 2 : LED Indicators**

The following section describes these indicators in detail.

- **Power LED**

This indicator is green when power is supplied to the device. The Power LED lights when you connect the power cable to the power receptacle at the rear of the device, and then plug it in to a power outlet.

- **Link/Act LED**

This indicator is green when the respective port is properly connected to a powered-on device and blinks green when packets are being transmitted or received. If the AUI or BNC connector of port 1 is used, this LED will not light to indicate the connection, but it will blink to indicate packet transmission and reception.



- **100M LEDs**

These indicators are green when port 1 or port 2 is connected to a device operating at 100Mbps. If either of these LEDs is off, then the port it corresponds to is either not connected or is connected to a device operating at 10Mbps.

- **FDX/Col (Collision) LED**

This indicator is green when the respective port is operating in full-duplex mode, and blinks yellow when collisions occur.

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## Rear Panel

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The rear panel of the 10/100 Fast Ethernet Switch includes the power cable connector and the Duplex Mode Switch.

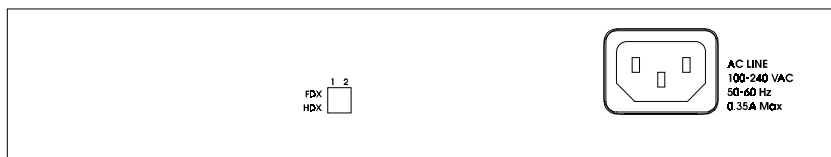


Figure 3 : Rear Panel

## Duplex Mode Switch

The 10/100 Fast Ethernet Switch must be set to the proper duplex mode for both ports. To change the duplex mode, change the Duplex Mode DIP switch setting on the back of the 10/100 Fast Ethernet Switch. On the DIP switch, down is half-duplex, up is full-duplex, and the switch numbers correspond with the port numbers.



# 2

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## **INSTALLATION**

This chapter describes the installation procedure for the 10/100 Fast Ethernet Switch. The chapter includes information on installation locations, connecting power, connecting network cables, setting the port duplex mode, cascading, and network configuration examples.

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### **Installation Site**

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You have the option to install the product on a table or mount it on a wall. When installing, choose a sturdy, level surface in a ventilated area that is dust free and away from heat vents, warm air exhaust from other devices and direct sunlight. Avoid proximity to large electric motors or other electromagnetic equipment.

Observe the following guidelines when choosing a location for the 10/100 Fast Ethernet Switch:

- The surface must support at least 1.2 kg (2.6 lbs).
- Air temperature should range from 32° to 122° F (0° to 50° C).
- Humidity should be less than 90%, non-condensing.

- 
- Site should not exceed the electromagnetic field (RFC) standards for IEC 801-3, Level 2 (3V/M) field strength.
  - The power outlet should be within 6 feet of the device.

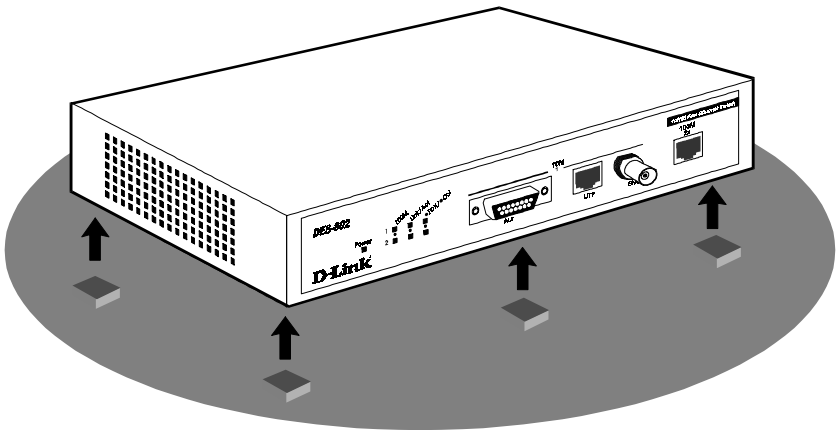
For a detailed list of the product's technical specifications, refer to Appendix A, *Specifications*.

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## Installing on a Desktop or Shelf

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When installing the product on a table you need to attach the rubber feet included with the device. Attach these cushioning feet on the bottom at each corner of the device. Allow enough ventilation space between the device and the objects around it.



**Figure 4 : Installing the 10/100 Fast Ethernet Switch on a Level Surface**

## Installing on a Wall

The product can be installed on a wall. When installing, you need to attach two tapping screws and two screw anchors to the bottom of the device. Wall mount supplies are included with the device.

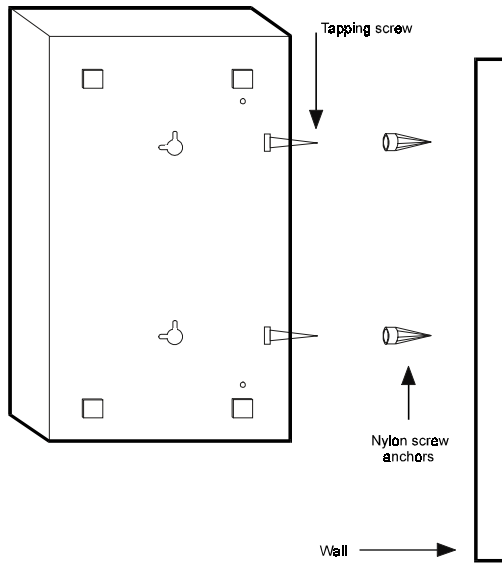


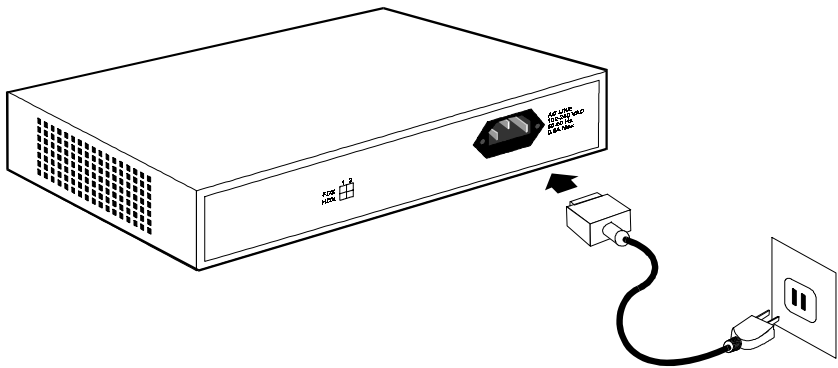
Figure 5 : Installing the 10/100 Fast Ethernet Switch on a Wall

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## Connecting Power

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Power is supplied to the 10/100 Fast Ethernet Switch through an AC power cord. The AC power input voltage ranges from 100 to 240 VAC. A power cable is included with the device.



**Figure 6 : Connecting Power**

Since the 10/100 Fast Ethernet Switch does not include a power switch, plugging it in to a power outlet will immediately power it on.

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## Network Connections

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If either port on the 10/100 Fast Ethernet Switch is set for full-duplex operation, the device (or LAN) connected to that port should also be set for full-duplex operation. The following sections discuss the requirements for each operating mode.

## **10 (& 100Mbps) Mode Operations: Port 1**

This port requires Category 3, 4, or 5 unshielded twisted-pair or shielded twisted-pair (UTP/STP) cable, a thin Ethernet coaxial cable with a T-connector, or an AUI adapter module for a thick Ethernet or Fiber optic connection. Port 1 can be used to connect to any 10BASE-T hub or other device using any of the listed media, or to any 100BASE-TX device via the twisted-pair port. The attached device must be within 100 meters of the 10/100 Fast Ethernet Switch. A crossover-type cable must be used for the connection unless connecting to an uplink capable switch or hub.

## **10/100Mbps Mode Operations: Port 2**

This port requires a Category 3, 4, or 5 unshielded twisted-pair or shielded twisted-pair (UTP/STP) cable. The attached device must be within 100 meters of the 10/100 Fast Ethernet Switch. A crossover-type cable must be used for the connection unless connecting to an uplink capable switch or hub.

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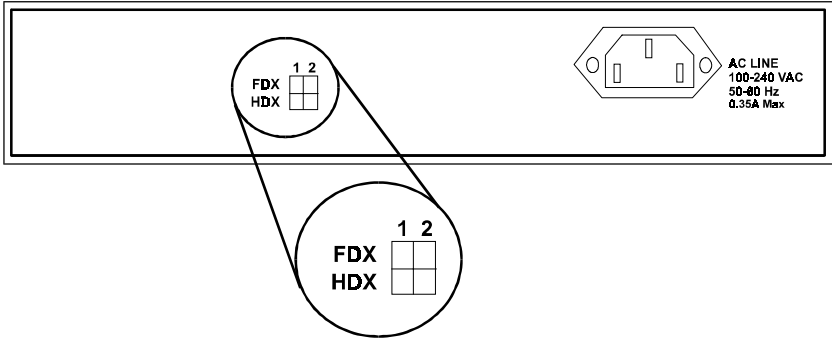
## **Setting the Duplex Mode**

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Both twisted-pair ports of the device can be set for half-duplex or full-duplex operation (the BNC and AUI ports are half-duplex only). At half-duplex operation, packet transmission and reception do not occur simultaneously, thus communication speed is limited to 10 or 100Mbps using either port. During full-duplex operation, packet transmission and reception occur simultaneously, thus communication speed is doubled to 20 or 200Mbps using either port. Full-duplex operation can be used on links between the 10/100 Fast Ethernet Switch and any hub, switch, or other device that supports full-duplex operation.

---

Set the duplex mode through the duplex mode switch at the rear of the device. To set a port to full-duplex operation, slide the corresponding duplex switch **up**. To set for half-duplex, set the duplex switch **down**.



**Figure 7 : Setting the Duplex Mode**

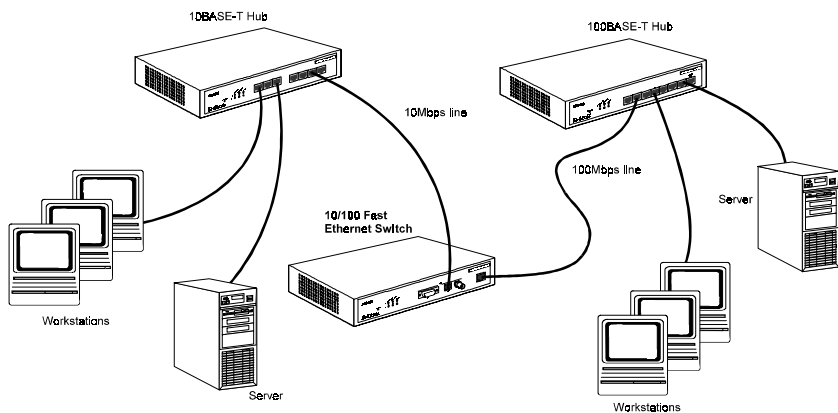


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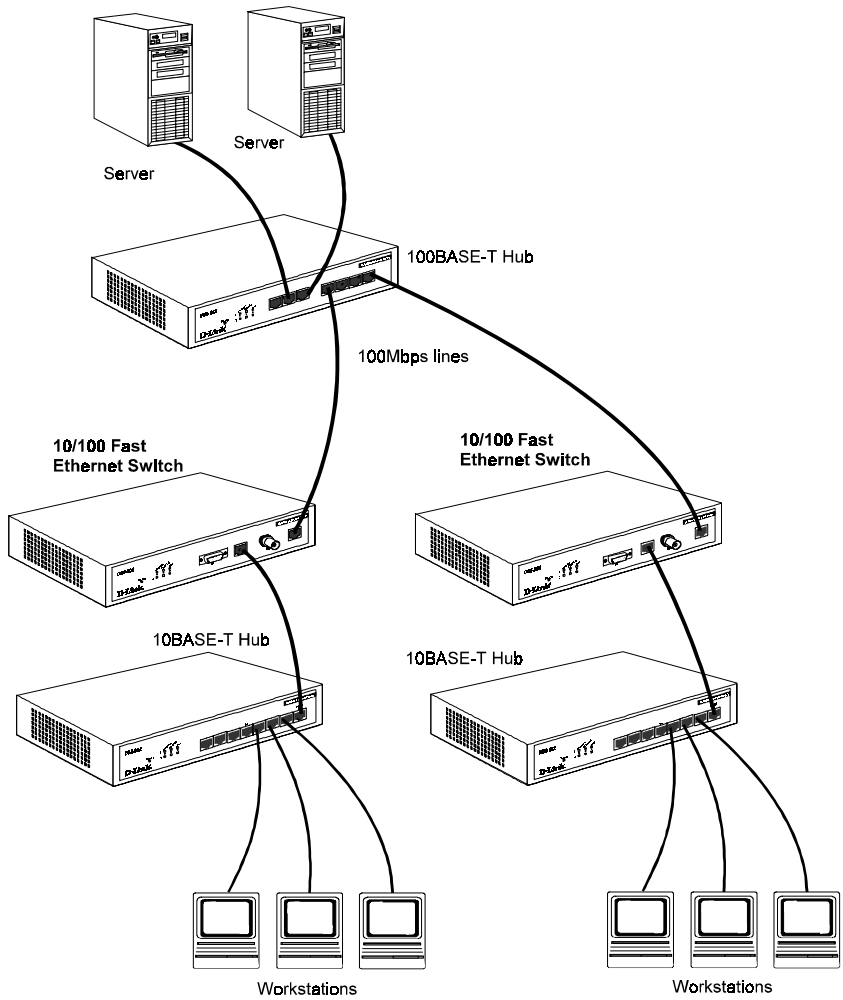
## Network Configuration Examples

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This section provides sample configurations showing ways you might use the 10/100 Fast Ethernet Switch.



**Figure 8 : Connecting a 100Mbps LAN Segment to a 10Mbps LAN Segment**



**Figure 9 : Connecting a 100BASE-T Hub for Server Access**



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# SPECIFICATIONS

This appendix lists the technical specifications for the device.

<b>Standards Compliance</b>	10BASE-2, 10BASE-T, IEEE 802.3, 100BASE-TX, IEEE 802.3u
<b>Port 1</b>	<b>RJ-45 N-Way</b> , 10BASE-T or 100BASE-TX; Full or Half Duplex – 10/20Mbps or 100/200Mbps  <b>BNC</b> , Coaxial port – thin Ethernet; Half Duplex Only  <b>AUI</b> , Transceiver port – thick Ethernet or Fiber Optic; Half Duplex Only
<b>Port 2</b>	<b>RJ-45 N-Way</b> , 10BASE-T or 100BASE-TX; Full or Half Duplex – 10/20Mbps or 100/200Mbps

<b>Performance</b>	<p><i>Filtering Rate:</i></p> <ul style="list-style-type: none"> <li>• 10Mbps modes – 14880 pps</li> <li>• 100Mbps modes – 140000 pps</li> </ul> <p><i>Forwarding Rate (Both):</i> 14880 pps</p>
<b>LED Indicators</b>	Power, Link/Rx, FDX/Tx, Col
<b>Dimensions</b>	232 x 142 x 45 (W x D x H mm)
<b>Weight</b>	1.2 kg/2.6 lbs
<b>Power Input</b>	100 ~ 240 VAC, 50/60Hz, 0.35A
<b>Power Consumption</b>	15 watts (maximum)
<b>Operating Temperature</b>	32° ~ 122° F (0° ~ 50° C)
<b>Humidity</b>	5 ~ 90%, Storage
<b>Altitude</b>	10,000 ft (3048 m)
<b>Emissions</b>	FCC part 15 Class A, VCCI A, CE Mark Class A
<b>Safety</b>	UL, CSA, TÜV/GS

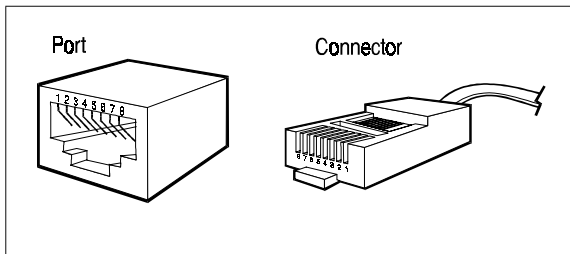
# B

## CONNECTOR PINOUTS

This appendix describes the connector pinouts including those for:

- RJ-45 connectors;
- the AUI transceiver connector.

### RJ-45 Connectors



**Figure B-1 : 100BASE-TX Connector**

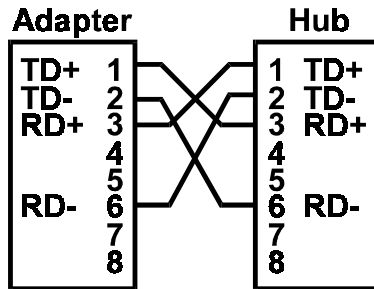
The above figure shows the arrangements of the pins, while Table B-1 lists the pinouts.

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**Table B-1 : 100BASE-TX Connector Pinouts**

Pin	Signal
1	TD+
2	TD-
3	RD+
4	NC
5	NC
6	RD-
7	NC
8	NC

A schematic for crossover cables is shown in the following figure.



**Figure B-2 : Crossover Cable**

## AUI Transceiver Connector

The following table gives the pinouts for the AUI connector.

**Table B-2 : AUI Connector Pinouts**

Pin	Circuit	Use
1	CI-S	Control IN Circuit Shield
2	CI-A	Control IN Circuit A
3	DO-A	Data OUT Circuit A
4	DI-S	Data IN Circuit Shield
5	DI-A	Data IN Circuit A
6	VC	Voltage Common
7	CO-A	Control OUT Circuit A
8	CO-S	Control OUT Circuit Shield
9	CI-B	Control IN Circuit B
10	DO-B	Data OUT Circuit B
11	DO-S	Data OUT Circuit Shield
12	DI-B	Data IN Circuit B
13	VP	Voltage Plus
14	VS	Voltage Shield
15	CO-B	Control OUT Circuit B

# D-Link® Offices

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<b>INDIA</b>	<b>D-LINK (INDIA) PVT. LTD.</b> Bombay Office : Plot No.5, Kurla-Bandra Complex Rd. Off Cst Rd., Santacruz (E) Bombay - 400 098 India TEL: 91-22-6172478 FAX: 91-22-6172476
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TEL: 886-2-916-1600 FAX: 886-2-914-6299

# Registration Card

**Print, type or use block letters.**

Your name: Mr./Ms \_\_\_\_\_  
 Organization: \_\_\_\_\_ Dept. \_\_\_\_\_  
 Your title at organization: \_\_\_\_\_  
 Telephone: \_\_\_\_\_ Fax: \_\_\_\_\_  
 Organization's full address: \_\_\_\_\_  
 \_\_\_\_\_  
 Country: \_\_\_\_\_  
 Date of purchase (Month/Day/Year): \_\_\_\_\_

Product Model	Product Serial No.	* Product installed in type of computer (e.g., Compaq 486)	* Product installed in computer serial No.

(\* Applies to adapters only)

Product was purchased from:

Reseller's name: \_\_\_\_\_  
 Telephone: \_\_\_\_\_ Fax: \_\_\_\_\_  
 Reseller's full address: \_\_\_\_\_  
 \_\_\_\_\_

**Answers to the following questions help us to support your product:**

- 1. Where and how will the product primarily be used?**  
Home Office Travel Company Business Home Business Personal Use
- 2. How many employees work at installation site?**  
1 employee 2-9 10-49 50-99 100-499 500-999 1000 or more
- 3. What network protocol(s) does your organization use ?**  
XNS/IPX TCP/IP DECnet Other \_\_\_\_\_
- 4. What network operating system(s) does your organization use ?**  
D-Link LANsmart Novell NetWare NetWare Lite SCO Unix/Xenix PC NFS 3Com 3+Open  
Banyan Vines DECnet Pathwork Windows NT Windows NTAS Windows '95  
Other \_\_\_\_\_
- 5. What network management program does your organization use ?**  
D-View HP OpenView/Windows HP OpenView/Unix SunNet Manager Novell NMS  
NetView 6000 Other \_\_\_\_\_
- 6. What network medium/media does your organization use ?**  
Fiber-optics Thick coax Ethernet Thin coax Ethernet 10BASE-T UTP/STP  
100BASE-TX 100BASE-T4 100VGAnyLAN Other \_\_\_\_\_
- 7. What applications are used on your network?**  
Desktop publishing Spreadsheet Word processing CAD/CAM  
Database management Accounting Other \_\_\_\_\_
- 8. What category best describes your company?**  
Aerospace Engineering Education Finance Hospital Legal Insurance/Real Estate Manufacturing  
Retail/Chainstore/Wholesale Government Transportation/Utilities/Communication VAR  
System house/company Other \_\_\_\_\_
- 9. Would you recommend your D-Link product to a friend?**  
Yes No Don't know yet
- 10. Your comments on this product?**  
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PLEASE  
PLACE STAMP  
HERE

**TO:** \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**D-Link®**

